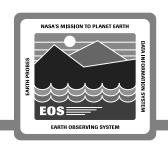


# Evaluation Packages and Incremental Development George Percivall

**16 February 1995** 

### Agenda



- Criteria for Incremental Development
- Multi-Track Development
- Evaluation Packages Life Cycle
- User Involvement
- Review and Integration Approach

# Incremental Development Criteria



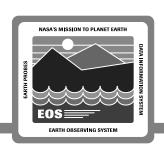
#### Criteria for Choosing Increments- Why do Incremental Development

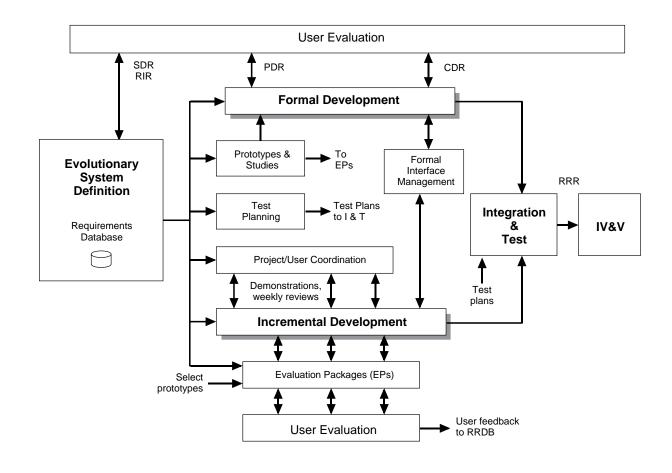
- Rapid User Feedback
- Iteration of User Interfaces
- Requirements Evolution for User Access

#### **Evaluation Packages (EPs)**

- Early Delivery Mechanism for User Evaluation
- EPs Contain Increments and Prototypes

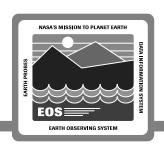
# Multi-Track Development for a Release

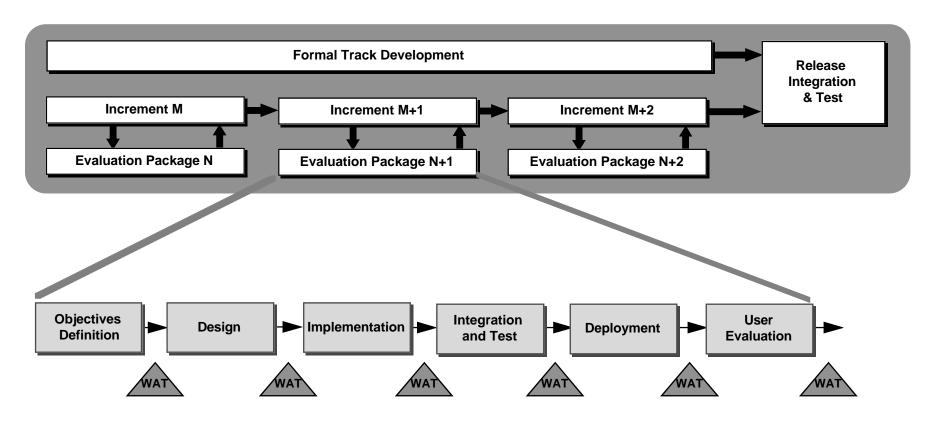




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# **Evaluation Package Life Cycle**

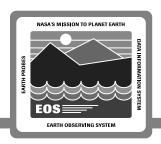




Wide Area Teleconference - WAT

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### **User Involvement**



#### **EP Reviews: Wide Area Teleconferences with**

- ESDIS
- DAACs, Hosted by ECS DAAC Liaisons
- Science Advisors/Tirekickers

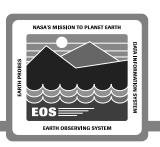
#### **Ongoing ECS Science Office Participation**

- Scenario Definition for Objectives Planning
- Identification of Data Sets used in Evaluation
- Detailed Science Script for Evaluation

#### **EP Evaluation Mechanisms**

- On-line User Survey and Free Text Comments
- Usability Testing





Peter Evans Univ. of Miami

Sundar Christopher South Dakota School of Mines

Nigel Hinds Univ. of Michigan

Dave Emmitt Univ. of Virginia

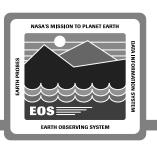
Mary James GSFC

Liz Smith Old Dominion University

Dan Baldwin Univ. of Colorado

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## **Review & Integration Approach**



#### Incremental Reviews/Audits

- Periodic Walkthroughs of Software Development Folders by ESDIS
- Internal Peer Reviews: Design and Code Walkthroughs

#### **EP Integration and Test (I&T)**

- Dedicated I&T Team
- Software Configuration Management (ClearCase)
- Integration Test Planning and Results Notebook
- Non-Conformance Reports (NCRs): Identification and Resolution

#### Integration for a Release

- As-Built Documentation Prior to Shipment
- Code Already Under Configuration Management
- NCRs from Unit Test and Operational Fixes
- Test Readiness Review (TRR) to begin Release I&T